OPEN FILE REPORT 79-816 UNITED STATES IRON SPRINGS QUADRANGLE DEPARTMENT OF THE INTERIOR COLORADO-MOFFAT CO. PLATE 18 OF 24 GEOLOGICAL SURVEY 7.5 MINUTE SERIES (TOPOGRAPHIC) 107° 52′ 30″ 50' 47'30" R. 93 W. R. 92 W. 40° 45′ EXPLANATION 10 8 11 12 13 17 18 16 14 18 NON-FEDERAL COAL LAND - Land for which the Federal Government does not own the coal ISOPACH - Showing thickness of coal, in feet. Arrow points toward area where coal bed is 5 feet or more thick. E - Emerson COAL BED SYMBOL AND NAME ---±-----TRACE OF COAL BED OUTCROP - Showing symbol of name of coal bed as listed above. Arrow points toward coal-bearing area. Short 21 19 19 20 22 20 24 23 dashed where inferred by present authors. TRACE OF FAULT - Bar and ball on downthrown side. Dashed where inferred by present authors. _____15²_____ SUBSURFACE MINING LIMIT - Showing areas where dips of coal beds are greater than 15° and subsurface mining by conventional methods is not considered feasible. Reserve Base tonnages are calculated beyond limit; Reserve tonnages are not. Arrow points toward area where dips are greater 26 28 30 30 27 29 25 29 STRIPPING-LIMIT LINE - Boundary for surface mining (in this quadrangle, the 200-foot-overburden isopach). Arrow points toward the area suitable for surface mining where the recovery factor is 85 percent, and away from the area suitable for substitutions with 42'30" 42'30" from the area suitable for subsurface mining (down dip to the 3,000-foot-overburden isopach) where the recovery factor is 50 0.03 0.02 0.24 0.12 (Inferred) IDENTIFIED COAL RESOURCES - Showing totals for Reserve Base (RB) and Reserves (R), in millions of short tons, for each section or part of section of non-leased Federal coal land, both within and beyond the stripping-limit line. Reserve (R) tonnage is calculated by millions the December 1982. 32 33 35 36 31 32 34 lated by multiplying the Reserve Base (RB) tonnage by the appropriate recovery factor. Dash indicates no resource in that category. Reserves have been calculated for a constant thickness of 12 feet for areas where the coal beds are more than 12 feet thick. Therefore, in some instances, underground Reserves may be less than 50 percent of the Reserve Base. T. 8 N. 3/4-mile radius resources **Indicated** resources (I) 0.40 0.02 0.47 NOTE: Identified resources are not calculated beyond dotted line because of insufficient data. R(50%) 2 0.35 -0.70 \scales 0.12 -0.86 1.52 0.24 RB 0.06 0.57 R(50%) 0.03 0.28 Inferred resources (Inf) RB R(50%) 0.39 0.19 3.32 1.59 RB R(85%) 0.16 0.14 0.15 0.13 R(50%) 0.61 2.21 0.07 R(50%) 0.70 3.52 0.23 18 17 13 R(85%) 0.11 0.03 0.13 0.04 RB 2.99 4.53 R(50%) 0.16 1.21 R(50%) 0.64 3.79 RB 1.34 8.67 BOUNDARY LINES - Enclosing areas of measured R(50%) 1.27 8.62 0.27 (M), indicated (I), and inferred (Inf) coal resources. Dashed where projected from adjacent quadrangles. R(50%) 1.05 3.60 RB 2.14 7.60 4.33 15.15 RB R(50%) 6.29 7.61 2.34 R(50%) 0.92 3.30 13.69 To convert feet to meters, multiply feet 3.68 RB R(50%)
1.18 0.58
5.789 2.86
1.62 0.81 by 0.3048. 23 nf 21 RB To convert short tons to metric tons, multiply short tons by 0.9072. R(50%) R(50%) 0.17 3.10 0.17 RB 0.55 9.11 0.48 0.30 0.10 To convert miles to kilometers, multiply miles by 1.6093. Base from U.S. Geological Survey, 1969 Compiled in 1977/1978 7000 FEET 1 KILOMETER This report has not been edited for conformity with U.S. Geological

> COAL RESOURCE OCCURRENCE MAP OF THE IRON SPRINGS QUADRANGLE, MOFFAT COUNTY, COLORADO BY **DAMES & MOORE**

> > 1979

UTM GRID AND 1969 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

COLORADO

QUADRANGLE LOCATION

PLATE 18 AREAL DISTRIBUTION AND

Survey editorial standards of stratigraphic nomenclature.

IDENTIFIED RESOURCES MAP OF THE EMERSON COAL BED